

Amendment under 37 C.F.R. §1.114  
Serial No. 10/542,065  
Attorney Docket No. 052780

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**JUN 25 2007**

### REMARKS

Claims 7 and 17-25 are currently pending. Support for the amendment to claim 7 and for new claims 20-24 may be found in the specification as originally filed, for example, at page 18, lines 11-12, page 8, line 11, and the Examples (claim 1), at page 17, lines 22 to 23 (claim 20), at page 18, lines 4-5 (claim 21), at page 18, lines 16-17 (claim 22), at page 15, lines 11-13 (claim 23) and at page 16, lines 4-9 (claims 24 and 25).

#### **I. Information Disclosure Statement**

An Information Disclosure Statement was filed June 7, 2007. The Examiner is requested to acknowledge receipt of the Information Disclosure Statement and to initial and return a copy of the Form PTO/SB/08.

#### **II. Rejection Based on Verrall in view of Li**

Claims 7-10 and 13-18 are rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Verrall in view of Li.

Claim 19 is rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Verrall in view of Li further in view of Nakano (Abstract, formulae, JP2002308832).

Claim 11 is rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Verrall in view of Li further in view of Cobb (US 6,515,785).

Claim 12 is rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over Verrall in view of Li further in view of Kameyama (US 6,088,079).

Applicants respectfully submit that the present invention is not obvious over the disclosures of Verrall in view of Li, alone or in view of the secondary references Nakano, Cobb,

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or Kameyama, and request that the Examiner reconsider and withdraw these rejections in view of the following remarks.

In Verrall, as the two substrates used for manufacturing of a cholesteric liquid crystal film, either (1) different substrates are used; or (2) substrates wherein one of the substrates comprises a barrier layer are used.

On the other hand, in the present invention as claimed, two substrates made of the same material (without a barrier layer) are used.

Additionally, the claimed ultraviolet intensity of 1 to 20 mW/cm<sup>2</sup> is higher than that taught or disclosed in Verrall.

By the use of Applicants' claimed manufacturing method for a broad band cholesteric liquid crystal film, including controlling the ultraviolet intensity and using the same material for the two substrates, a cholesteric liquid-crystal film having a broad-band reflection bandwidth can be obtained. The cited art does not teach or disclose such a process for obtaining a cholesteric liquid-crystal film having a broad-band reflection bandwidth.

In addition, Li does not describe the use of the polymerizable mesogenic compound (a) and the polymerizable chiral reagent (b) of the present application. See also claims 18 and 19. Further, the material used in Li is different from that of Verrall. Thus, one skilled in the art would not have combined the disclosures of Verrall and Li.

Furthermore, although Li describes that the pitch length continuously varies, the portion of Li particularly pointed out by the Examiner does not specifically describe that "the pitch

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Serial No. 10/542,065  
Attorney Docket No. 052780

length is changed so as to decrease continuously from the side irradiated with ultra violet" as is the case of the present application.

The secondary references, Nakano, Cobb, or Kameyama, do not overcome the deficiencies discussed above in the primary references.

For the above reasons, it is respectfully submitted that the subject matter of claims 7 and 17-24 is neither taught by nor made obvious from the disclosures of Verrall in view of Li, alone or in view of the secondary references Nakano, Cobb, or Kameyama, and it is requested that the rejections under 35 U.S.C. §103(a) be reconsidered and withdrawn.

### III. Conclusion

In view of the above, Applicants respectfully submit that their claimed invention is allowable and ask that the rejections under 35 U.S.C. §103 be reconsidered and withdrawn. Applicants respectfully submit that this case is in condition for allowance and allowance is respectfully solicited.

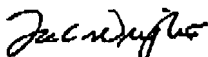
If any points remain at issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the local exchange number listed below.

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If this paper is not timely filed, Applicants respectfully petition for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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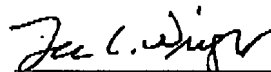
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**CERTIFICATE OF FACSIMILE TRANSMISSION**

I hereby certify that the attached Petition for Extension of Time (1p), RCE Transmittal (1p) and Amendment under 37 C.F.R. §1.114 (8p) are being formally transmitted via the USPTO Central Fax No. 571-273-8300 on June 25, 2007.



Lee C. Wright

Reg. No. 41,441